



# The GARzette

The Official Newsletter of the Gwinnett Amateur Radio Society  
November 2019 <http://www.gars.org/> Volume 28, Issue 11



## Doing the Tail Twister, and Enjoying Ham Radio Remotely, by Ray Bailey, N4GYN

The screenshot displays a complex interface for remote ham radio operation. The main window is titled "N4GYN Local".

- Top Bar:** Shows "Welcome, N4GYN VOL" and "MIC" controls.
- Mode Selection:** LSB, Wide, Mid, AGC, ALC, Tx Mtr, APF, ATT, Antenna (One, Normal), CW Method (PBT Outside, PBT Inside).
- Frequency Display:** 7.272.000 and 3.912.000 MHz.
- Control Buttons:** TXd, Tune, NB, NR, ANF, MNF, DW, Split, Main, Sub, M/S, M=S, PB Clr, Test, Stop, Comp.
- Antenna Switch:** ADR 2200, listing 8 options: #1 20-10M Yagi, #2 6M Yagi, #3 N/C, #4 All above sw's are from Radio Ant 1, #5 ON=40M Delta Loop --- OFF=80M Doublet, #6 N/C, #7 N/C, #8 Sw 5-8 = From Radio Ant 2. Arrows point to the N/C entries.
- Chats:** A log of messages including "May I tune the remote?", "I Please check TEXT messages HERE, especially if you are using your mobile device ! \*\*\*\*\* PLEASE CLICK ASK BEFORE DOING ANYTHING \*\*\*\*\* Please give credit to this remote when giving your call sign!", and "Thank you. ALSO: for 60M use memory settings (bottom of your client). WELCOME - you need to pay close attention to the information on my web page \*\*\*\*\* <https://n4gyn-ray.com/n4gyn-remote/>
- CW Control:** MACROS, F6, F7, TEST, (A) n4gyn.
- DCU-1:** BEARING 344, GO, STOP, READY, a compass rose with 360 degrees.

November 12, 2019 7:00 pm at EAA Hangar

# Message from the President

I just spent the weekend with several GARS and Gwinnett ARES members completing the new AUXCOMM class at GEMA. For those who are not familiar with the AUXCOMM designation or the training program, it is a classification that has been created under the FEMA Incident Management System structure specifically for Amateur Radio.

We've all known that Amateur Radio can play a valuable role in emergency communications during disasters and other events when traditional communications are out or impaired such as hurricanes and weather events, but also

for special events such as parades and larger events like the Super Bowl. Over the last two decades, a structure for staffing and handling these events has been developed by FEMA and Homeland Security. The Incident Command System sets up a management and operational structure for an event beginning with the Incident Commander and specific sections to handle specific areas such as Planning, Logistics, Operations and Finance.

All communications fall under the Logistics Section and under the leadership of a Communications Unit Leader or COML. There has always been a position loosely defined under the Technical Specialists for Amateur Radio called Auxiliary Communications. At Dayton this year, it was announced that the AUXCOMM position was formalized with a 20-hour training class and a Position Task Book to record completion of specific activities to complete the certification.

While Auxiliary Communications encompasses Amateur Radio's role in Communications, this function also includes other modes of communications that could be utilized in case of



“...the AUXCOMM role looks to be an important step for those who wish to serve not only at the local level but participating in events at the state and national level.”

loss of traditional modes and systems. A prerequisite for the course is an Amateur Radio license along with specific FEMA online courses to familiarize students with the structure they will operate under.

The AUXCOMM course and certification is an important recognition of the role Amateur Radio plays in supporting emergency communications. While emergency communications such as participation in ARES is not for everyone and is only one aspect of Amateur Radio, the AUXCOMM role looks to be an important step for those who wish to serve not only at

the local level but participating in events at the state and national level.

The holidays are right around the corner and don't forget to get your wish list ready for Santa. I look forward to seeing everyone at the GARS Holiday Party on December 7<sup>th</sup>. Don't forget to sign up on the GARS website.

73,

A handwritten signature in black ink, appearing to read "John Adams".

WB4QDX, Club  
President

***"It is not the class of license the Amateur holds, but the class of the Amateur that holds the license."***

[Author Unknown]

# GARS November Meeting and Workshop

**Doing the Tail Twister and  
Enjoying Ham Radio Remotely**

**By Ray Bailey, N4GYN**

**Using Raspberry Pi  
for Ham Radio (Part 1)**

**by Dave Slotter, W3DJS**

**Tuesday, November 12, 2019 7:00 pm**

**Tuesday, November 19, 2019 7:00 pm**

**Sports Aviation Complex—Hangar 1  
690 Airport Road  
Lawrenceville, GA 30045**

**NOTE: Location Entrance to the Hangar has changed! See below link for more details!**

[Updated Entrance Directions to EAA Hangar](#)

## **INSIDE**

GARS Happenings..... Pg 4  
Review: QuirkyQRP Radio.... Pg 6  
New ARRL Magazine ..... Pg 7  
ARRL Election / HamCram .. Pg 8  
Beginner's Corner..... Pg 9  
Gwinnett ARES Highlights ... Pg 10  
Net Manager's Corner ..... Pg 11  
GARS Membership Page..... Pg 12  
Mtg / Workshop Minutes..... Pg 14  
Contests and Hamfests ..... Pg 15  
GARS Event Schedule ..... Pg 16  
VE Testing / Schedules ..... Pg 17

<b>GARS Communications</b>	
<u>2 Meter Repeaters</u> 147.075(+) MHz Tone 82.5 147.255(+) MHz Tone 107.2	<u>6 Meter Repeater</u> 53.110 (-1 MHz) No Tone (Offline for Maintenance)
<u>1.25 Meter Repeater</u> 224.580(-) MHz Tone 100.0, 1.6 MHz Offset	<b>Other Resources:</b> <u>APRS</u> 144.390 -- 1200 Baud W4GR
<u>70 Cm Repeaters</u> 444.525(+) MHz Tone 82.5 442.100(+) MHz Tone 100 442.325(+) MHz Tone 100	<u>D-STAR</u> WD4STR 145.060 + (1.4 MHz) 440.550 + (5 MHz)

**Don't forget  
to support our  
advertisers at the  
back of the  
*GARzette*.**

Snail Mail Address:  
GARS  
P.O. Box 492531  
Lawrenceville, GA 30049

The *GARzette* is the official monthly newsletter of the Gwinnett Amateur Radio Society, serving its members and other persons interested in the advancement of the Amateur Radio art.

Original articles, art, and photos are invited and encouraged. Previously copyrighted submissions cannot be accepted for reprinting unless permission from the appropriate publisher is provided in writing along with the information being submitted. If reprints are from publications allowing their unrestricted use, please include a copy of the printed permission contained in the publication.

If possible, bring your articles to the monthly meeting in Microsoft Word or rich text (.rtf) or text or HTML format or by e-mail to [editor@gars.org](mailto:editor@gars.org). Artwork can be accepted in most any graphics format and can be submitted via e-mail to the same address. Alternate means of submittal can be arranged when necessary.

In keeping with the Amateur Radio spirit, permission is hereby granted for the reproduction of The *GARzette* articles by other Amateur Radio club newsletters provided that proper credit is given to the individual author and *The GARzette*.

*The GARzette* is published each month with the assistance of Norm Schklar, WA4ZXV who prints copies for distribution at meetings, etc. and Dave Bruse, W4DTR, who distributes the news letter electronically.

Deadline for submissions is the 28th of each month for inclusion in the following month's issue.

For additional information view our Website at: <http://www.gars.org>

Newsletter Editor: [editor@gars.org](mailto:editor@gars.org) Bill Eggers—WB2RIS 470-238-9603

# GARS Happenings

## 20 Years ago in the November 1999 GARzette:

- Changes to the GARS Bylaws were proposed in this issue, which would add 2 new officer positions: Executive Vice President and Membership Manager.
- The ARES Report asked members to check into the ARES net from the nearest fire station, hospital or City Hall location, and proposed having Hams demonstrate relaying traffic on New Years Eve (to support Y2K switchover, in case there are communication problems);
- The slow rate of vanity call sign application processing was discussed;
- The FCC announces the creation of the Enforcement Bureau and Consumer Information Bureau;
- An upcoming Space Shuttle flight will transport amateur radio equipment to the ISS;
- Frank, KF4TQV, discusses how he got started in Amateur Radio.
- Earl, AF4FG, discusses using an HT while hiking.



You can always browse the GARzette archive at <http://www.gars.org/newsletters>

73, *Bill*, WB2RIS, GARzette Editor

## Upcoming Special Event Stations

The following special event stations are scheduled late this year. Additional special event stations for 2020 will be discussed in the December 2019 GARzette.

- IB2LV** celebrates the 500th anniversary of the death of Leonardo da Vinci until December 2. A certificate will be available. <https://www.qrz.com/db/ib2lv>
- DR50DIG** celebrates its 50th anniversary of the DIG German Award hunters group (DIG #6477, DOK DIG). QRV until end 2019. QSL via bureau or direct via DH1PAL.
- DM70GER** and **DL70BRD** celebrate Germany's Septuagennial Jubilee throughout the year. An award will be available as well. QSL for DM70GER via M0SDV direct or Club Log OQRS, DL70BRD via DK1YH direct or bureau, Club Log OQRS.
- 

- OL75CARBON** marks the 75th anniversary of Operation Carbon, executed during World War II in the Protectorate of Bohemia and Moravia by Czech paratroopers trained in England. Activity until end November. QSL via OK2PXJ.
- PH100ADL** commemorate the first commercial flight in the Netherlands 100 years ago. QRV until the end of 2019. QRV on HF using SSB and CW. QSL via bureau.
- KLM** is the world's oldest airline (founded on Oct. 7, 1919) and remains The Netherlands' national airline to this day. The special event station **PH100KLM** celebrates this anniversary until November 30. QSL via PA3DVA bureau.

73, *Bill* WB2RIS (Source: [DXWorld.net Bulletin 325](http://DXWorld.net/Bulletin325))

## Hamfest Exam Session Counts

Saturday 11-2:

- 10 new Technicians, 7 new Generals, 3 new Extras
- Total candidates: 26

Sunday 11-3:

- 2 new Technicians, 2 new Generals, 1 new Extra
- Total candidates: 8

Congratulations to all those who passed!

73, *Frank* KV4SP

## GARS HELP WANTED

- GARzette Editor — Looking for someone to become the next GARzette Editor, starting off as a GARzette Committee member / Assistant Editor. Experience with Microsoft Publisher would be nice, but any experience with Microsoft Office products is helpful. Most of the content is supplied by others, but occasionally you may wish to write content, especially in your area of expertise. If you are interested, please contact Bill Eggers, WB2RIS at [editor@gars.org](mailto:editor@gars.org).

If you're interested in volunteering for one of these positions, please contact one of the GARS Officers. Supporting GARS activities is an important part of what we do and help from club members is needed.

[PS— Articles to publish in the GARzette, either written by GARS members or published elsewhere, are always welcome. —Ed.]

# GARS Happenings (Cont'd)

## B-17 Special Event Station "Aluminum Overcast"

A big thanks to Paul Branson, KA4YZR, for organizing and operating the B-17 Special Event Station this past Saturday at Briscoe Field. Also assisting was Dave Slotter, W3DJS. From the log, many contacts were made and several stopped by to operate. It was great that GARS could provide the station and add to the B-17 for the EAA690 chapter.

73, *John* WB4QDX



# Review: QuirkyQRP Keychain Radio

I first learned of the QuirkyQRP keychain radio on the Amateur Radio Roundtable with W5KUB, found on the website <http://tmnedlin.com/>. I was quite intrigued with the notion of a radio small enough to fit on a keychain, so I went ahead and ordered one off of Etsy. There, I learned the radios came in 10, 15, 17, 20, 40, 80 and 160 meter configurations. Each keychain radio only supports one band and one frequency. The wait time for delivery was supposed to be 4-6 weeks, but I received mine closer to 4 weeks.

The radio arrived via USPS from Ripon, California in a small brown envelope, and the contents consisted of the radio plus an instruction sheet and 9 volt Sunbeam battery. The radio itself is transmit-only, and comes with a built-in micro straight key button for CW operation, but also has a 3.5 mm jack for connecting an external straight key or electronic keyer. It also has a 50 ohm female SMA antenna connector, although a BNC connector is an option on the web store. The casing is somewhat translucent, and a LED inside of it lights up when you press down on the keyer. Finally, a 9 volt battery connector on the rear of the transmitter rounds out the connectors. The front of the transmitter has a morse code cheat sheet, and the side of the transmitter proudly displays an American flag with "Made in U.S.A." as it is handmade in USA by James Hannibal - KH2SR.

The dimensions of the QuirkyQRP Keychain Radio are 1" x 1" x 0.75" and includes a keychain (for its namesake). As this is a QRP radio, the power output is indicated to be 160 milliwatts maximum from the 9 volt battery, and it is hard-wired to transmit on 7.200 MHz. The instructions indicate that using more than 9 volts will damage the transmitter.

I personally find the construction to be mostly solid, although the built-in micro straight key button feels like it would not hold up to sustained long-term usage, and I would recommend using an external key with it. I like the small size of the keychain transmitter and how it is a conversation piece. At \$39.95, I find it to be quite affordable.

For more information on QuirkyQRP keychain radios, or to order one, visit <https://www.etsy.com/shop/QuirkyQRPHamRadios>. Note: as of April, 2019, James Hannibal has added a "SlinkTenna": 80 meter - 6 meter Helical Dipole HF Ham Radio Antenna to his offerings.

73, *Dave Sloter, W3DJS*

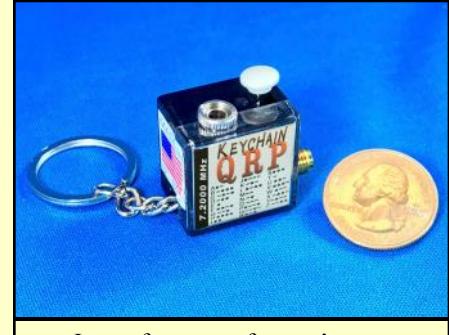


Image from manufacturer's page



Front Image



Rear Image



# ARRL Announces New Magazine



## Discover all you can do with your amateur radio license in *On the Air* magazine!

*On the Air* magazine is the newest ARRL member benefit to help new licensees and beginner-to-intermediate radio communicators navigate the world of amateur radio. Delivered six times a year, the magazine will present articles, how-to's, and tips for selecting equipment, building projects, getting involved in emergency communication as well as spotlighting the experiences of people using radio to serve their communities, and those using it for enjoyment.

Whether you just passed your Technician exam or have been licensed for years but never got around to making contacts or starting a project, *On the Air* can help you take your interest in radio to the next level with clear, useful information.

### Current Issue and Archive

View the latest digital edition of *On the Air*. (beginning mid-January 2020)

To view the current digital magazines or archived editions, members must log in with their registered username and password. Your username and password will be the same credentials used to log in to the ARRL website. If you are having difficulty logging in to the digital formats, please visit the [Member Support](#) page for login assistance.

### Print Editions

ARRL offers two magazines options for members: [QST](#), the official membership journal of ARRL and, beginning in 2020, *On the Air*, aimed at helping new and emerging radio communicators get active and on the air! Eligible US-based ARRL members can elect to receive one of these in print when they join, or upon their annual renewal.

### Digital Editions & Archives

If you are a current ARRL member, US or International, you can access the digital editions of both *QST* and *On the Air* via your browser or the [ARRL mobile apps](#).

### ARRL Magazine Apps

Members can download these free ARRL Magazine apps to access the digital editions of *On the Air* and *QST*.

#### Android App

Get the digital editions of ARRL magazines on your [Android device](#).



#### iOS/Apple App

Get the digital editions of ARRL magazines on your [iPad, iPhone, or iPod touch](#).



#### Kindle Fire App

Get the digital edition of ARRL magazines on your [Kindle Fire](#).



Sources: <http://www.arrl.org/On-the-Air-Magazine>,  
<http://www.arrl.org/news/arrl-to-launch-new-on-the-air-magazine-in-january>

# ARRL Director / Vice Director Elections

Candidates for ARRL Directors and Vice Directors Announced  
08/20/2019

Two races for the office of ARRL Director and one contest for Vice Director are set for this fall. In the Southeastern Division, incumbent Director Greg Sarratt, W4OZK, faces a challenge from Mickey Baker, N4MB. A three-way race is set for the office of Southeastern Division Vice Director, with incumbent Joseph Tiritilli, N4ZUW, facing James Schilling, KG4JSZ, and Jeff Stahl, K4BH.

The candidates are:

Southeastern Division  
Director  
Greg Sarratt, W4OZK  
Mickey Baker, N4MB

Vice Director  
James Schilling, KG4JSZ  
Jeff Stahl, K4BH  
Joseph Tiritilli, N4ZUW



In Divisions where more than one candidate is seeking the same position, full members in that Division in good standing as of September 10, 2019, will have the opportunity to cast ballots. Official paper ballots and candidates' statements will be mailed no later than October 1, 2019, to members who are eligible to vote.

Completed ballots must be received at the address on the envelope provided by noon Eastern Time on Friday, November 15, 2019, when ballots will be counted at ARRL Headquarters and successful candidates announced.

Source: Excerpts for Southeastern Division from  
<http://www.arrl.org/news/candidates-for-arrl-directors-and-vice-directors-announced>

## HamCram Technician License Class

Saturday, Nov. 16 and 23 2019

This is the entry level study session.

For more information on the test session

[click here](#) to email the instructors.

### STUDY GUIDE:

We will be using the [hamradioschool.com](http://hamradioschool.com) material.

### CLASS:

Time determined by the instructors

Thirty Minute Lunch Break with lunch brought in.

### LOCATION:

Gwinnett County Emergency Operations Center (EOC)

800 Hi-Hope Road, Lawrenceville

[Click here for directions](#)

### EXAM SESSION:

This exam session is a closed session only available  
to those students who sign up for the class.

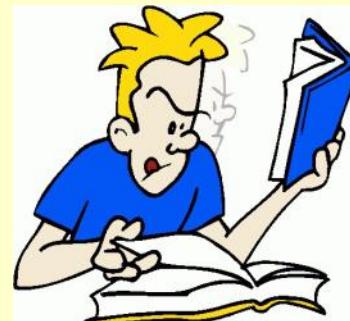
### REGISTRATION:

\*\*\* Pre-registration is Required \*\*\*

\*\*\* There is a no refund policy for no shows \*\*\*

First Saturday will be 08:00 to 16:00 the second Saturday will start at 08:00 till finished then the test session. Lunch will be 30 minutes ordered in. The \$25.00 will cover lunches and testing.

To register go to <http://www.gars.org>



# Beginner's Corner

## Test Equipment for the New Ham, and Other Hams, as Well

I bought a new portable antenna. I have family responsibilities, so it took me a while to take it out and try it. It would not work. What was wrong with this antenna? I had seen videos of other amateur radio operators who had good results with the same antenna. I tried a Parks on the Air (POTA) activation with the antenna, that was unsuccessful. It took seemingly hours to tune up the new antenna. I announced my presence on the POTA web site ([pota.us](http://pota.us)) people could hardly hear me, yet I was pumping out 100 watts. My thought was, "It is my antenna, or am I doing something wrong?"

I had set the antenna up in the back yard and confirmed that it was set up correctly. I had a 50-foot cable from my radio to the antenna through our basement door. Still, it would not tune. OK, time to bring out the test equipment to see what was wrong. What if it was the cable that was bad? My antenna cable was one I bought specifically for portable operations. It still looked new. The antenna cable couldn't be the problem, could it? The first thing I did was to use my multi-meter. Multi-meters are cheap. They can measure direct current (DC) and alternating current (AC) voltages. They also measures resistance. Well, let's check to see if we have continuity in the antenna cable. I pulled the cable completely into the basement for a check. I used the ohms (resistance) setting to see if the center conductor had continuity from end to end. It did. The shield had continuity from end to end, too. Next, I put one lead on the center connector on one end and put the other lead on the shield. I should read a short (zero ohms) if there was a short in the cable. I would read infinite resistance (an open) if there was no short anywhere in the cable. That was exactly what I had. No problem so far.

Now it is time to bring out the big gun, my antenna analyzer. Every ham should have a multi-meter, and every ham should at least have access to an antenna analyzer. There are several kinds, and they all work differently. I hooked my antenna analyzer to one end of the cable. I re-connected the antenna on the other end. I had set the antenna to be resonant at least somewhere near the 20-meter band. Let's see what kind of readings I get. I hit a spot of near resonance about 12 MHz, and one about 4 MHz. I checked the entire HF spectrum. I adjusted the antenna everywhere, and the readings were the same. Now I am really beginning to suspect the cable, new or not. I decided to check it out with a dummy load. There is one problem; I don't have a dummy load! I didn't have a clue who had one I could borrow. So, I did the next best thing. I made one. Antenna analyzers are actually milliwatt transmitters, so I did not need anything spectacular. I needed a 50-ohm load, so I made one! I had a spare mountable SO-239 connector that a coax cable fits into. I also had bought a bunch of 100-ohm resistors. Remember, if you hook two 100-ohm resistors in parallel, you have 50 ohms. I hooked the resistors across the SO-239 connector. Voila! I have a 50-ohm dummy load!

I put the dummy load on the one end of the cable with my antenna analyzer on the other end. If the cable were good, I should have a flat 50 ohms throughout the spectrum with nearly perfect SWR (standing wave ratio). I didn't. The results identical to when the antenna was connected.

Conclusion: my "new" cable is bad. Fortunately, I had a spare cable (good idea to have). I hooked it up to the radio and the antenna. I fired up the rig. I was on 20 meters, and contacted a station in Pennsylvania.

So, it wasn't the antenna after all! Having the right test equipment can make all the difference.



73 de *David Harden, KJ4CMY*

# Gwinnett ARES Highlights

By Karen Whited, AB4NW

Meetings are held the 4th Tuesday at 7:30 pm at the EOC on Hi Hope Road. If you are interested in emergency communications, contact Hall Collier W4IGE at [w4ige@arrl.net](mailto:w4ige@arrl.net).



## WORK DAY – SEPTEMBER 18 Gwinnett-Newton-Rockdale Public Health Dept By Mark Bell N7GRB

Our local health department had not been able to check in to the Thursday Public Health Net for two weeks due to the local D-Star repeaters losing internet access. With a little experimenting, we discovered their radio could hit a D-Star repeater in Gainesville, some distance away. A little reprogramming of the ICOM 880H memory channels to add the Gainesville repeater made them good to go. Thanks to Larry Whited AB4NX for having the RTS software and programming cable for the 880H. The radio station at this location is strategically located right off the agency's incident command post. You can print off an inbound message, turn around, and hand it out the door. The setup is PC and printer, Yaesu FT-897 HF, Signalink, ICOM 880H dual band D-Star, Yaesu FT-8800 dual band, and a KPC3+. Everything is on GNR's emergency generator.



## S.E.T. HELD ON OCTOBER 5 Simulated Emergency Test

Our annual simulated exercise confirms the ability of Gwinnett ARES to provide emergency communications to the Gwinnett County EOC, GEMA, and across the counties and state during any disaster. This year's

scenario was a heat wave with a stressed power grid and people arriving at cooling shelters, some presenting with heat-related medical problems. Members were assigned to three shelters across the county as well as the EOC, ARES trailer, and Northside Hospital-Duluth. We communicated our needs using voice traffic and the ICS form 213 request-response sequence via Winlink. At the October 22 ARES meeting, we held a debriefing on what went well, what were our challenges, what we learned, and what could be improved upon for next year.



## MEDICAL RESERVE CORPS DRILL – Sept 28

This was a joint exercise with the Gwinnett-Newton-Rockdale County Health Department (GNR), Gwinnett ARES, and the Medical Reserve Corps (*see last month's GARzette article describing the MRC*). The simulation was a radiological bomb detonated at Atlanta Hartsfield-Jackson Airport. It is likely that only those within a few hundred yards were directly affected. After a period of shelter-in-place, 50,000 people were advised to evacuate the surrounding area downwind from the blast. Over 500,000 people were worried they may have received a lethal dose of radiation. Many headed to a Community Resource Center (CRC) for screening, decontamination, and possibly assistance with housing.

ARES operators were stationed at an EOC, the CRC, the GNR, and Northside Hospital-Duluth. Using ICS 213 forms via Winlink, the CRC received messages from the EOC regarding inbound citizens for screening. They reported status to the EOC and GNR and requested transport of the "contaminated" citizens requiring either medical aid or transport to a site for more advanced screening. The EOC sent Winlink messages back and forth with Northside Hospital-Duluth for hospital status, bed count reports, and notification of citizens being transported to their site. Participating were Jamie Burns KX4HA, Glen Wendt W3WWT, Mark Bell N7GRB, Larry Whited AB4NX, Karen Whited AB4NW, Dave Slotter W3DJS, and Charlie Allport WS4TOT.

# Net Managers Corner

## Monday Night 2 Meter “Want, Swap, Sell, and Information Net”

### **GARS NEEDS MEMBERS TO SERVE AS NET CONTROL STATIONS!**

**GARS is a great Amateur Radio service club** and we have the membership and awards to prove it. Our club is a very busy and active club and we use the Monday night net to get the information out to our members. Weekly participation is needed to make our net function well. There is only a small group of very dedicated people that make the net happen each week, and we need more members to volunteer to serve as Net Control Stations (NCS) on a rotating basis.

Out of almost 300 members, there are only **SEVEN** primary people who serve as NCS for the GARS net every Monday night. In no particular order, they are:

Don - KW4AL	Ray - N4GYN	Bill - KK4AUA
David - KA4KKF	Kevin - KK4WOG	Chuck - KK4TKJ
Russell - AB4QQ		

As GARS Net Manager (Chuck KK4TKJ), I really need 26 people to fill NCS positions. I do plan and post the schedule months in advance. Any conditions will be accommodated that you as a rotating NCS need to place on the scheduling of your duties. If your plans change, I can make adjustments for the schedule to work, and I will make those changes happen as soon as I am notified of a problem. As Net Manager, I also send out reminders each week to let the NCS scheduled know he or she is NCS for the next Monday night net. In short, serving as a rotating NCS is a small duty but a great contribution to the club.

The “Want, Swap, Sell Information Net” begins promptly at 19:30 every Monday night and runs about 45 minutes. As a scheduled NCS, you will request the assistance of a volunteer alternate NCS each time you have Net Control. Your simple duties will be to tune in to the GARS repeater, read the script, take a few notes and forward the information to me for record keeping.

Please lend a hand and contact me at [KK4TKJ@arrl.net](mailto:KK4TKJ@arrl.net). Sign up to help support the effort that makes GARS the great club that it is.

73 and see you on the Nets!

*Chuck McCord, KK4TKJ*

GARS Net Manager



# GARS Membership Page

## New GARS Members in October

**Ben Cullinan (KN4ZEX)**  
**Bill Cullinan (KN4ZEZ)**  
**Drake Cullinan (KN4ZEY)**  
**Raymond Kell (WA4FEQ)**

## New Members: 4

**Total Members as of October 31, 2019**  
331

**Join GARS members for our  
weekly breakfast gathering at  
7:30 AM most Saturdays**

**at**

**Golden Corral  
2155 Riverside Parkway  
Lawrenceville, GA 30043**

**[\(Directions\)](#)**

**The following members are  
celebrating birthdays  
in November:**

**HAPPY BIRTHDAY!!  
From All of Us at GARS**

**John Bachtel (NR4JB)**  
**Pamela Brown (KJ4RYV)**  
**Julia Collier**  
**Drake Cullinan (KN4ZEY)**  
**Anthony De Lucia (W4OG)**  
**Christi Dickerson**  
**Matthew Dyals (KN4WBL)**  
**Robert Eybers (KN4WBM)**  
**Puddin Garrison (KJ4QIB)**  
**Eddie Geike (AK4WM)**  
**Colt Goodrum**  
**Eileen Kelley**  
**Jack Kempster (KN4QMB)**  
**John Kludt (K4SQC)**  
**Karen Kregel (KC6JCX)**  
**Al Ludwick (NN4ZZ)**  
**Andrea Lynch (KM4OKX)**  
**Gretchen Mann (W1MKW)**  
**Donna McCord (KM4FMW)**  
**Nick Nikley (N0NCQ)**  
**Sue Pannell**  
**Kevin Scott (K4GTR)**  
**Andre Steyn (W7ALS)**  
**Lawrence Teper (KN4CGP)**  
**Jim Webb (W4NTA)**  
**Nova Whatley (KF4HLG)**  
**Karen Whited (AB4NW)**  
**William Wisenburg (KM4ONE)**

## GARS MEMBERSHIP

Your current GARS membership status is shown in the monthly newsletter e-mail  
towards the bottom of the message.

To become a GARS member, or to renew your GARS membership, please visit our website—<http://www.gars.org>

To make changes to your GARS membership (moved, new e-mail address, new phone number, etc.),  
please e-mail the Membership Committee - [membership@gars.org](mailto:membership@gars.org)

You can **renew or update** your Amateur Radio license information with the FCC at their website for free  
<http://wireless.fcc.gov/uls/index.htm?job=home>

To update your ARRL information, please visit their website - <http://www.arrl.org>

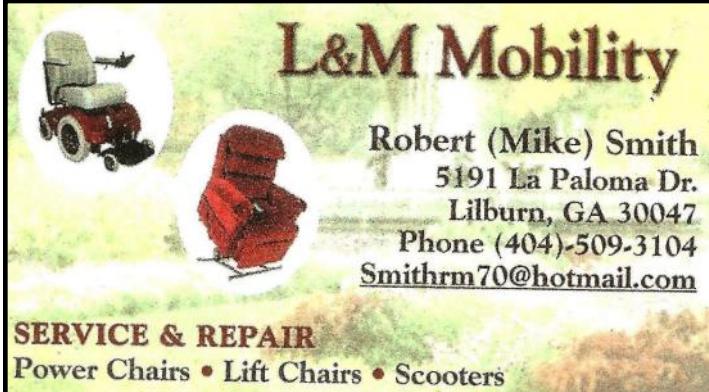
Membership Chair: Karen Albritton, KI4HPP  
Committee Members: Dave Bruse, W4DTR, Pam Meridy, WB1AKQ

## EXTRA! EXTRA!

### Repeater Status

6M	currently down
147.075	Operational in Snellville
147.255	Operational in Snellville
224.580	Operational in Grayson
442.100	Operational at Goshen Springs
442.325	Operational in Buford
444.525	Operational in Snellville

Link remote receivers being added



**L&M Mobility**

Robert (Mike) Smith  
5191 La Paloma Dr.  
Lilburn, GA 30047  
Phone (404) 509-3104  
Smithrm70@hotmail.com

**SERVICE & REPAIR**  
Power Chairs • Lift Chairs • Scooters

### GARS on Social Media

GARS has moved to Groups.io!



Join GARS on Groups.io:  
<http://gars.org/groups.io>



Visit GARS on Facebook:  
<http://gars.org/facebook>



Follow GARS on Twitter:  
<http://gars.org/twitter>



Join GARS on YouTube:  
<http://gars.org/youtube>

## G A R S Volunteers

### OFFICERS

John Davis, President	WB4QDX	
Sandy Jackson, Vice President	KJ4DRO	
Joe Biddle, Secretary	AD4PZ	
Pam Meridy, Treasurer	WB1AKQ	
Randy Collins, Program Manager	N4COR	

### MANAGERS/COMMITTEE CHAIRS

Karen Albritton, Membership Chair	KI4HPP	
Dave Bruse, VE Team & Workshop Leader	W4DTR	
David Adcock, Webmaster and Field Day Chair	KA4KKF	
Ralph Pickwick, Apparel Manager and Education Chair	KJ4CNC	
Glen Wendt, TechFest Chair	W3WWT	
Bill Eggers, GARzette Editor	WB2RIS	
Eddie Foust, Repeater Chair	WD4JEM	
Mike Weathers, WAS / DXCC QSL Card Checker and Historian	ND4V	
Chuck McCord, Net Manager	KK4TKJ	
Mike Swiderski, Technical / RFI Advisor	K4HBI	
Joe Biddle, Winter Field Day Chair	AD4PZ	
Kyle Albritton, Multimedia Chair	W4KDA	
Don Stewart, Elmer Manager	KW4AL	
Dave Slotter, Georgia QSO Party Chair	W3DJS	

### DIRECTORS AND TRUSTEES

Kyle Albritton, W4KDA		Rick Cobb, N4XYY	
Mike Weathers, ND4V		Bill Cherepy, WB4WTN	

## GARS MEETING AND WORKSHOP MINUTES

### Gwinnett Amateur Radio Society GENERAL Meeting Minutes 10/8/2019

**President John Davis (WB4QDX) Opened the meeting at 7:00pm and Closed the meeting at 9:09pm  
EAA Facility, 690 Hanger Rd. Lawrenceville, GA.**

**Introductions and Visitors:** Visitors were recognized and full Introductions of the [ 68 ] attendees followed.

**Treasurer:** Pam Meridy (WB1AKQ) gave the Club financial report.

**Membership Report:** Karen Albritton (KI4HPP) reported for Karen that Membership is at [ 327 ].

**Programs:** Randy Collins (N4COR) announced upcoming programs:

- **November** – Doing the Tail Twister and Enjoying Ham Radio Remotely.
- **December** – Holiday Party
- **January 2020** - Power Supplies

**GARS Workshop - David (W4DTR)** outlined the next few workshop sessions coming up:

- **September** – QRZ.com
- **October** – Massive Show/Tell Radio Go Boxes

**GARS Education – John (WB4QDX)** reminds us. HamCram scheduled for **November 16<sup>th</sup> and 23<sup>rd</sup>** at the Gwinnett Emergency Center and is \$25.

**TechFest - Glen (W3WWT)** Reminds us the date is Saturday, January 18th, 2020.

- Invites sent to existing exhibitors.
- Gwinnett Medical Center is still uncertain due to their management transition.
- Forums are getting set. Four to five were mentioned so far: Strange antennae, fusion, hot spots, antenna launching and solar weather. Glen is looking for additional suggestions.

**JOTA – Steve (WB4OGY)** reminds us that Jamboree On The Air will be **October 19** – At the VFW in Lawrenceville for the World's Largest Scout Event in the world. They'll be operating and running two merit badge classes. Requesting volunteer operators.

**Stone Mountain Hamfest – November 2<sup>nd</sup> & 3<sup>rd</sup>.** Volunteers are needed and you can sign up on GARS.org. Sign up to

volunteer and record hours worked. Each Hour worked will get you an additional prized ticket free.

**Holiday Party** – is set for **Saturday December 7**. **Sign up online for Fun, Food and great Entertainment.**

**Break:**.....

**Program** – Massive Home Brew Show & Tell.

Submitted by: **Joe Biddle (AD4PZ)**, GARS Secretary

### Workshop Meeting Minutes

**10/15/2019**

Topic: Massive Radio Go Boxes: Show & Tell, Ask & Build

By Ed Woodrick, WA4YIH

**Number in Attendance:** 37

Brief Summary:

This workshop focused on the considerations in designing a ham radio go box. Elements included, but are not limited to: What do you want to do with your go box? What type radio (HF? VHF? UHF? combinations of the three). Will you need digital capability? How will you power it (internal or external to box, DC? AC? Both?)? Have you considered the weight of your design? Its portability? Other elements included wiring, component positioning, cost, and space requirements. After the presentation go boxes that were brought in by workshop participants were inspected and discussed. Ed's PowerPoint presentation is/will be found on the GARS website.

Submitted by **Russell Prevost AB4QQ**  
**GARS Workshop Committee**  
**Workshop Secretary**

## ARRL CONTESTING INFO

### From ARRL Contest Calendar

> For more information click the links <

#### November 2019

2-4 [Nov. Sweepstakes - CW](#)  
16-17 [EME - 50 to 1296 MHz](#)  
16-18 [Nov. Sweepstakes - Phone](#)

#### December 2019

6-8 [160 Meter](#)  
14-15 [10 Meter](#)  
15 [Rookie Roundup-CW](#)

#### January 2020

1 [Straight Key Night](#)  
4 [Kid's Day](#)  
4-5 [RTTY Roundup](#)  
18-20 [January VHF Sweepstakes](#)

#### February 2020

10-14 [School Club Roundup](#)  
15-16 [International DX - CW](#)

#### March 2020

7-8 [International DX- Phone](#)

#### April 2020

19 [Rookie Roundup – Phone](#)

(no ARRL contests in May)

#### June 2020

13-15 [June VHF](#)  
20 [Kid's Day](#)  
27-28 [Field Day](#)

#### July 2020

11-12 [IARU HF World Championship](#)

#### August 2020

1-2 [222 MHz and Up Distance Contest](#)  
15-16 [10 GHz & Up – Round 1](#)  
16 [Rookie Roundup – RTTY](#)

#### September 2020

12-14 [September VHF](#)  
19-20 [10 GHz & Up - Round 2](#)  
TBD [EME - 2.3 GHz & Up](#)

#### October 2020

TBD [EME - 50 to 1296 MHz](#)  
19-23 [School Club Roundup](#)

For more information:

<http://www.arrl.org/contest-calendar>

## HAMFEST CALENDAR

### 11/02/2019 | [Georgia State Convention, Stone Mountain Hamfest](#)

Location: Lawrenceville, GA  
Type: ARRL Convention  
Sponsor: W4BOC Alford Memorial Radio Club, Gwinnett Amateur Radio Society  
Website: <http://stonemountainhamfest.com/>

### 11/09/2019 | [HamJam](#)

Location: Alpharetta, GA  
Type: ARRL Hamfest  
Sponsor: North Fulton Amateur Radio League  
Website: <http://hamjam.info>

### 01/11/2020 | [Georgia State ARES Meeting, ARRL Operating Specialty Convention](#)

Location: Forsyth, GA  
Type: ARRL Convention  
Sponsor: Georgia ARES  
Website: <https://gaares.org>

### 01/18/2020 | [TechFest](#)

Location: TBD  
Type: ARRL Hamfest  
Sponsor: Gwinnett Amateur Radio Society  
Website: <http://www.techfest.info/>

### 02/07/2020 | [Orlando HamCation, ARRL Northern Florida Section Convention](#)

Location: Orlando, FL  
Type: ARRL Convention  
Sponsor: Orlando Amateur Radio Club  
Website: <http://www.hamcation.com>

For more information: <http://www.arrl.org/hamfests-and-conventions-calendar>  
When searching by division, remember some states adjacent to GA are in different divisions:

Southeastern: GA, AL, FL Delta: TN Roanoke: NC, SC

## GARS Events Calendar for 2019 & 2020

TechFest ( <a href="http://www.techfest.info">www.techfest.info</a> )	January 18, 2020
Winter Field Day	January 25&26, 2020
General HamCram	March 16&23
Dog Show Fundraiser	March 28 - 31
<b>Georgia QSO Party</b>	<b>April 11&amp;12, 2020</b>
North metro area Fox Hunt	April
May Madness	May
<b>Memorial Day Parade</b>	<b>May 25, 2020</b>
<b>ARC/KARC Hamfest</b>	<b>June 6, 2020</b>
<b>Field Day</b>	<b>June 27&amp;28, 2020</b>
Tech HamCrams	Jul 20&27, Nov 16&23
JOTA	October 19
Maker Faire <b>(GARS Will Not Participate in 2019)</b>	
Stone Mt. Hamfest	November 2&3
Holiday Party	December 7

### December GARS Meeting:

**No Meeting - Holiday Party**

## GARS Recurring Calendar

- ♦ 2nd Tuesday of the month at 7 pm (except December): Monthly Club Meeting
- ♦ 3rd Tuesday of the month at 7 pm (except December): Monthly Workshop
- ♦ 2nd Sunday of the Month at 2 pm: [GARS Ham Exam Session](#)  
Fire Station #24  
2735 Mall of Georgia Blvd  
Buford, GA 30519
- ♦ Every Monday at 7:30 pm: GARS Want, Swap, Sell, and Information Net on the GARS 147.075 MHz repeater
- ♦ Every Monday at 8:30 pm: ARES Training on the GARS 147.075 MHz repeater
- ♦ Most Saturdays at 7:30 am: GARS Weekly Breakfast  
Golden Corral Restaurant  
2155 Riverside Parkway,  
Lawrenceville, GA 30043

## GARS CALENDAR OF EVENTS FOR NOVEMBER 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
October 27	October 28  7:30 - 8:00 pm GARS 2m Net	October 29	October 30	October 31	1	2  7:30 - 9:30 am Breakfast <b>STONE MTN HAMFEST DAY 1</b>
3  <b>STONE MTN HAMFEST DAY 2</b>	4  7:30 - 8:00 pm GARS 2m Net	5	6	7	8	9  7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive
10  <b>GARS VE Team Testing Session Starts at 2:00 pm</b>	11  7:30 - 8:00 pm GARS 2m Net	12  5:00 - 6:30 pm Dinner  7:00 - 9:00 pm GARS Meeting	13	14	15	16  7:30 - 9:30 am Breakfast <b>HAMCRAM at County EOC Day 1 of 2</b>
17	18  7:30 - 8:00 pm GARS 2m Net	19  5:00 - 6:30 pm Dinner  7:00 - 9:00 pm GARS Workshop	20	21	22	23  7:30 - 9:30 am Breakfast <b>HAMCRAM at County EOC Day 2 of 2</b>
24	25  7:30 - 8:00 pm GARS 2m Net	26	27	28  <b>HAPPY THANKSGIVING!</b>	29	30  7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive

## Metro Testing Sessions

GARS publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at <http://www.arrl-ga.org>.

### First Sunday, ODD Months

2 pm (Jan, Mar, May, Jul, Sep, & Nov)  
VEC: WCARS  
Braselton Public Utility Building  
4986 Highway 53, Braselton, GA  
Contact: Roger Gibson, WB4T  
(770) 271-4210 or (770) 712-9560  
[w4rlg@bellsouth.net](mailto:w4rlg@bellsouth.net)

### First Sunday, EVEN Months

2 pm (Feb, Apr, Jun, Aug, Oct, Dec)  
VEC: WCARS  
Hall County EOC  
470 Crescent Dr. Gainesville, Ga.  
Contact: Perry Roper, KO4RD  
(770) 536-3056

### Second Saturday

10:00 AM  
Alpharetta North Park, Adult Activities Center  
13450 Cogburn Rd, Alpharetta, GA 30004  
Contact: Ian Kahn, KM4IK  
E-mail: [km4ik.ian@gmail.com](mailto:km4ik.ian@gmail.com)

### Third Saturday, ODD Months

VEC: ARRL  
9:30 am (Appointments required, no walk-ins)  
Stone Mountain Masonic Lodge  
840 VFW Drive  
Stone Mountain, GA 30083  
Contact: Frank Haynes, KV4SP  
Email: [fhaynes@vatmom.net](mailto:fhaynes@vatmom.net)  
(678) 467-3712

### Second Sunday

VEC: W5YI  
2 pm  
Fire Station #24  
Mall of Georgia Boulevard  
Buford, GA 30519  
Contact: Dave Bruse, W4DTR  
E-mail: [exams@gars.org](mailto:exams@gars.org)

### First Sunday, EVEN Months

VEC: WCARS and W5YI  
2 pm @ Barrow Co. Emerg. Serv. Bldg  
66 McElroy Street  
Winder, GA 30680  
Contact: Mike Wolcott, W4WYI  
(404) 281-6581  
E-mail: [W4WYI@ARRL.net](mailto:W4WYI@ARRL.net)

(cont. next column)

## Ham Exam Results

### October Results

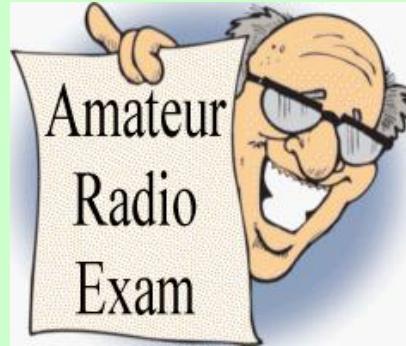
We had a successful test session on Sunday October 13. One person tested and passed the Technician exam. The following VE's donated their Sunday time to make this session a success:

Pam Meridy, WB1AKQ  
Dave Adanich, K8WDJ  
Russell Prevost, AB4QQ  
David Bruse, W4DTR, CVE  
Gregg Freeman, W1ROO  
Bill Hawkins, WR1TR  
Frank Haynes, KV4SP  
Yolanda Pence, KM4AAQ  
Robert Pence, KM4AAP

73, *Sid*, N4NQ (Co-CVE)

GARS VE Team Leaders  
E-mail: [exams@gars.org](mailto:exams@gars.org)

GARS VE Website:  
<http://gars.org/exams>



### Fourth Tuesday

ARRL VEC  
7 pm @ United Way Service Center  
6279 Fairburn Rd., Douglasville  
Contact: Jessie Clower, KB4WFK  
(770) 942-6466

### Fourth Sunday

2:30 pm Georgia Tech  
VanLeer Elec. Building  
Rm. W218, 777 Atlantic Dr.  
For more information go to [www.w4aql.com](http://www.w4aql.com) and click on "Test Sessions"

## Metro Club Meetings

### First Tuesday

Kennehoochee ARC  
Downtown Marietta  
Fire Station #1, Training Room  
112 Haynes Street  
Marietta, Georgia 30060  
Meeting begins at 7:00pm  
Talk In 146.880(-)

### First Thursday

Atlanta Radio Club  
Georgia Red Cross HQ  
1955 Monroe Dr., Atlanta  
Meeting is at 7:30pm  
Talk In -146.820(-)

N.E. Georgia ARC  
Commerce Public Library  
1344 South Broad Street, Commerce  
Meeting is at 6:30pm  
Talk In - 147.225(+), PL 123.0

### Second Monday

Georgia Tech ARC  
Room W218  
Van Leer Electrical Engineering Bldg.  
Georgia Tech Campus  
Meeting at 7:00pm

### Second Thursday

Alford Memorial Radio Club  
Annistown Road Baptist Church  
Annistown Rd & Spain Rd  
Stone Mountain  
Dinner at 6:00pm, Meeting at 7:30pm  
Talk In - 146.760(-)

### Second Saturday

North GA QRP Club  
Board Room of The Shepherd Center  
2020 Peachtree Rd, NW, Atlanta  
at 10:00 AM

### Third Tuesday

North Fulton Amateur Radio League  
Alpharetta Recreation & Parks Dept  
Alpharetta Adult Activity Center  
13450 Cogburn Road  
Alpharetta, GA 30004  
meeting at 7:30pm  
Talk In - 145.47(-)

For more information, go to:  
<http://www.gars.org/>

# Serving You From Coast to Coast and Around the World



**Order Toll-Free From a Location Near You**

Or Take Advantage of Secure 24-Hour Ordering:

<http://www.hamradio.com>



If your closest 800 number is busy, please call one of our other numbers.

Phone Hours: 9:30 am to 5:30 pm Monday – Saturday

All Stores Open 10am - 5:30pm Monday - Saturday

**24-Hour FAX Order Lines at all Store Locations**

Ham Radio Outlet App available at:



6071 Buford Hwy, Doraville

1 mile north of I-285

(770) 263-0700

(800) 444-7927

24 Hour FAX (770) 263-9548

Email: [atlanta@hamradio.com](mailto:atlanta@hamradio.com)

Manager:  
Mark KJ4VO  
Assistant Mgr:  
James KK4WNX

David AI4XL  
Denise  
Ken KI4BQS  
Ray WN5FB  
Koz KD3GC

Toll Free Numbers:

Northeast (800) 644-4476

West (800) 854-6046

Southeast (800) 444-7927

Mountain (800) 444-9476

Mid-Atlantic (800) 444-4799

New England (800) 444-0047



**INTERBOROREFRIGERATION**  
**HVAC/R**

All branch Ice Machine      Walk-in Box Cooler

Licensed by E.P.A.

Central A/C - Heater and Water Heater

All Commercial Refrigeration Systems

Ice Cream Freezer

All Jobs Guaranteed

30 years of Experience

Reparation & Maintenance

Luis Castellanos  
owner

Address: 470 Bay lake pass,  
Lawrenceville, GA 30046

Tel.: 610-816-8744  
Email: [cel-piloto52@hotmail.com](mailto:cel-piloto52@hotmail.com)

**Finally**  
A clog-free gutter  
with no fine print.

**The Real GUTTER PROTECTOR**  
No Clogs. No Overflow. GUARANTEED.

You'll never have to clean your gutters again. The Real Gutter Protector's Waterloov® System uses a patented design that slows water more effectively and draws water in more completely, with smaller openings that keep out more debris. <http://www.realgutterprotector.com>

Atlanta, Georgia - (770) 630-1582

## Real Estate Broker

Century 21  
21 Results Realty



**SHARON ADCOCK**

*CRS, GRI, e-Pro,  
Relocation Expert,  
Associate Broker*

[www.SharonAdcock.com](http://www.SharonAdcock.com)  
2920 Ronald Reagan Blvd  
Cumming, GA 30041



Buying\*Selling\*Investing  
For Any Real Estate  
Matters

There has never been a  
better time to invest in Real  
Estate

**Inventory is LOW  
It's a Seller's Market**

Sharon@  
[SharonAdcock.com](http://SharonAdcock.com)  
Cell: 404-428-9127  
eFax 678-679-1383

Not intended